

Low Noise Cable

Features	• Minimizes triboelectric/microphonic noise • Triboelectric noise level reduction up to a factor of 1,000 • Assembled with very high quality connectors • Highly shielding coaxial design																																			
Applications	• Low signal current, voltage and charge measurements • Scanning probe microscopy, photodetectors, ionization detectors, piezo- and pyroelectric sensors etc. • For use with FEMTO low noise amplifiers. Strongly recommended for all current amplifiers with gain $\geq 10^7$ V/A • Recommended for low frequency applications (≤ 1 MHz)																																			
Specifications	<table><tr><td>Test conditions</td><td>$T_A = 25\text{ }^{\circ}\text{C}$</td></tr><tr><td>Electrical</td><td></td></tr><tr><td>Impedance</td><td>$50\text{ }\Omega \pm 5\text{ }\Omega$</td></tr><tr><td>Capacitance</td><td>$94\text{ pF/m} \pm 10\text{ pF/m}$</td></tr><tr><td>Insulation resistance</td><td>$> 10^{14}\text{ }\Omega \times \text{m}$</td></tr><tr><td>DC resistance, inner conductor</td><td>$< 400\text{ m}\Omega/\text{m}$</td></tr><tr><td>DC resistance, outer conductor</td><td>$< 40\text{ m}\Omega/\text{m}$</td></tr><tr><td>Recommended frequency range</td><td>DC to 1 MHz</td></tr><tr><td>Attenuation</td><td>$< 0.1\text{ dB/m}$ (@ DC to 1 MHz)</td></tr><tr><td>General Data</td><td></td></tr><tr><td>Cable jacket</td><td>PTFE, $\varnothing 1.92\text{ mm}$</td></tr><tr><td>Connectors</td><td>BNC plug (male) to BNC plug (male)</td></tr><tr><td>Minimum bending radius</td><td>15 mm (fixed installation) 30 mm (free movement)</td></tr><tr><td>Maximum operating voltage</td><td>AC: $< 46\text{ V}$ peak-peak, DC: $< 70\text{ V}$</td></tr><tr><td>Temperature range connectors</td><td>$-55\text{ }^{\circ}\text{C}$ to $+155\text{ }^{\circ}\text{C}$</td></tr><tr><td>Temperature range cable</td><td>$-190\text{ }^{\circ}\text{C}$ to $+200\text{ }^{\circ}\text{C}$</td></tr><tr><td>Weight</td><td>0.1 m: 34 g (0.075 lbs), 0.2 m: 34.9 g (0.077 lbs), 0.5 m: 37.7 g (0.083 lbs), 1.0 m: 42.4 g (0.094 lbs), 1.5 m: 47.1 g (0.104 lbs), 3.0 m: 61.2 g (0.135 lbs), 5.0 m: 79.9 g (0.176 lbs)</td></tr></table>		Test conditions	$T_A = 25\text{ }^{\circ}\text{C}$	Electrical		Impedance	$50\text{ }\Omega \pm 5\text{ }\Omega$	Capacitance	$94\text{ pF/m} \pm 10\text{ pF/m}$	Insulation resistance	$> 10^{14}\text{ }\Omega \times \text{m}$	DC resistance, inner conductor	$< 400\text{ m}\Omega/\text{m}$	DC resistance, outer conductor	$< 40\text{ m}\Omega/\text{m}$	Recommended frequency range	DC to 1 MHz	Attenuation	$< 0.1\text{ dB/m}$ (@ DC to 1 MHz)	General Data		Cable jacket	PTFE, $\varnothing 1.92\text{ mm}$	Connectors	BNC plug (male) to BNC plug (male)	Minimum bending radius	15 mm (fixed installation) 30 mm (free movement)	Maximum operating voltage	AC: $< 46\text{ V}$ peak-peak, DC: $< 70\text{ V}$	Temperature range connectors	$-55\text{ }^{\circ}\text{C}$ to $+155\text{ }^{\circ}\text{C}$	Temperature range cable	$-190\text{ }^{\circ}\text{C}$ to $+200\text{ }^{\circ}\text{C}$	Weight	0.1 m: 34 g (0.075 lbs), 0.2 m: 34.9 g (0.077 lbs), 0.5 m: 37.7 g (0.083 lbs), 1.0 m: 42.4 g (0.094 lbs), 1.5 m: 47.1 g (0.104 lbs), 3.0 m: 61.2 g (0.135 lbs), 5.0 m: 79.9 g (0.176 lbs)
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